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11	12165	713/\$.ccls.	USPAT	2004/06/14 10:38
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13	25	(713/\$.ccls. and (dual or compound\$4 or multiple or plural\$3)near3 (lock\$3 adj loop)) and delay	USPAT; US-PGPUB; IBM_TDB	2004/06/14 10:23
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15	31087	375/\$.ccls.	USPAT	2004/06/14 10:39
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Berger, H.H.; Helwig, K.;
Solid-State Circuits, IEEE Journal of , Volume: 14 , Issue: 2 , Apr 1979
Pages:327 - 337

[\[Abstract\]](#) [\[PDF Full-Text \(1968 KB\)\]](#) **IEEE JNL**

2 **An efficient real-time method for improving intrinsic delay of capacity allocation in interactive GEO Satellite networks**
Ki-Dong Lee;
Vehicular Technology, IEEE Transactions on , Volume: 53 , Issue: 2 , March 2
Pages:538 - 546

[\[Abstract\]](#) [\[PDF Full-Text \(432 KB\)\]](#) **IEEE JNL**

3 **Delay time analysis of submicron InP-based HEMT's**
Youngwoo Kwon; Pavlidis, D.;
Electron Devices, IEEE Transactions on , Volume: 43 , Issue: 2 , Feb. 1996
Pages:228 - 237

[\[Abstract\]](#) [\[PDF Full-Text \(964 KB\)\]](#) **IEEE JNL**

4 **A 64-bit adder by pass transistor BiCMOS circuit**
Ueda, K.; Suzuki, H.; Suda, K.; Tsujihashi, Y.; Shinohara, H.;
Custom Integrated Circuits Conference, 1993., Proceedings of the IEEE 1993 May 1993
Pages:12.2.1 - 12.2.4

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE CNF****BEST AVAILABLE COPY**

5 Compatible improvement of the GSM/EDGE system by means of space time coding techniques

Mietzner, J.; Hoeher, P.A.; Sandell, M.;

Wireless Communications, IEEE Transactions on , Volume: 2 , Issue: 4 , July
Pages:690 - 702

[Abstract] [PDF Full-Text (783 KB)] IEEE JNL

6 On the problem of gate assignment under different rise and fall delays

Oliveira, A.L.; Murgai, R.;

Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 22 , Issue: 6 , June 2003
Pages:807 - 814

[Abstract] [PDF Full-Text (509 KB)] IEEE JNL

7 Traffic management techniques to face the effects of intrinsic delay in geostationary satellite networks

Iera, A.; Molinaro, A.; Marano, S.;

Wireless Communications, IEEE Transactions on , Volume: 1 , Issue: 1 , Jan.
Pages:145 - 155

[Abstract] [PDF Full-Text (286 KB)] IEEE JNL

8 A 64-bit carry look ahead adder using pass transistor BiCMOS gates

Ueda, K.; Suzuki, H.; Suda, K.; Shinohara, H.; Mashiko, K.;

Solid-State Circuits, IEEE Journal of , Volume: 31 , Issue: 6 , June 1996
Pages:810 - 818

[Abstract] [PDF Full-Text (1132 KB)] IEEE JNL

9 Two-dimensional analysis of a BiNMOS transistor operating at 77 K using a modified PISCES program

Chen, Y.-W.; Kuo, J.B.;

Electron Devices, IEEE Transactions on , Volume: 39 , Issue: 2 , Feb. 1992
Pages:348 - 355

[Abstract] [PDF Full-Text (620 KB)] IEEE JNL

10 High-performance BiCMOS 100 K-gate array

Gallia, J.D.; Yee, A.-L.; Chau, K.K.; Wang, I.-F.; Davis, H.; Swamy, S.; Nguyen V.M.; Ruparel, K.N.; Moore, K.; Chae, B.; Lemonds, C.E., Jr.; Eyres, P.; Yoshitani, T.; Shah, A.H.;

Solid-State Circuits, IEEE Journal of , Volume: 25 , Issue: 1 , Feb. 1990
Pages:142 - 149

[Abstract] [PDF Full-Text (756 KB)] IEEE JNL

11 SiGe heterojunction bipolar transistor with 213 GHz f_T at 77 K

Zerounian, N.; Aniel, F.; Adde, R.; Gruhle, A.;

Electronics Letters , Volume: 36 , Issue: 12 , 8 June 2000
Pages:1076 - 1078

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[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) IEEE JNL

12 Compatible improvement of the GSM/GPRS system by means of diversity

Mietzner, J.; Hoeher, P.A.; Sandell, M.;

Communications, 2003. ICC '03. IEEE International Conference on , Volume: 3 , 11-15 May 2003

Pages:1983 - 1987 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(305 KB\)\]](#) IEEE CNF

13 Timing analysis models for gates and cells with bipolar-transistor output stages

Tesu, I.-C.; Pileggi, L.T.;

ASIC Conference and Exhibit, 1995., Proceedings of the Eighth Annual IEEE International , 18-22 Sept. 1995

Pages:149 - 152

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) IEEE CNF

14 A 64 bit carry look-ahead CMOS adder using Modified Carry Select

Morinaka, H.; Makino, H.; Nakase, Y.; Suzuki, H.; Mashiko, K.;

Custom Integrated Circuits Conference, 1995., Proceedings of the IEEE 1995 May 1995

Pages:585 - 588

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) IEEE CNF

15 Delay and area optimization in standard-cell design

Lin, S.; Marek-Sadowska, M.; Kuh, E.S.;

Design Automation Conference, 1990. Proceedings. 27th ACM/IEEE , 24-28 Ju 1990

Pages:349 - 352

[\[Abstract\]](#) [\[PDF Full-Text \(328 KB\)\]](#) IEEE CNF

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Pages:2771 - 2783[\[Abstract\]](#) [\[PDF Full-Text \(1248 KB\)\]](#) **IEEE JNL****2 Interleaved convolutional coding for the turbulent atmospheric optical communication channel***Davidson, F.M.; Koh, Y.T.;*Communications, IEEE Transactions on , Volume: 36 , Issue: 9 , Sept. 1988
Pages:993 - 1003[\[Abstract\]](#) [\[PDF Full-Text \(868 KB\)\]](#) **IEEE JNL****3 Coded modulation for a coherent DS-CDMA system employing an MMSE receiver in a fading channel***Foerster, J.R.; Milstein, L.B.;*Communications, IEEE Transactions on , Volume: 48 , Issue: 11 , Nov. 2000
Pages:1909 - 1918[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) **IEEE JNL****4 Combined speech and channel coding for mobile radio communications***Hong Shi; Ho, P.K.M.; Cupperman, V.;*Vehicular Technology, IEEE Transactions on , Volume: 43 , Issue: 4 , Nov. 1995
Pages:1078 - 1087[\[Abstract\]](#) [\[PDF Full-Text \(860 KB\)\]](#) **IEEE JNL**

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5 A square distance-based byte-erasure method for reduced-delay protection of DSL systems from non-stationary interference

Toumpakaris, D.; Cioffi, J.M.; Gardan, D.; Ouzzif, M.;

Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE , Volume 4 , 1-5 Dec. 2003

Pages:2114 - 2119 vol.4

[Abstract] [PDF Full-Text (266 KB)] IEEE CNF

6 An overview of trellis coded modulation research in COST 231

Boulle, K.; Femenias, G.; Agusti, R.;

Personal, Indoor and Mobile Radio Communications, 1994. Wireless Networks Catching the Mobile Future. 5th IEEE International Symposium on , Volume: 1 , 18-23 Sept. 1994

Pages:105 - 109 vol.1

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF

7 Cell loss compensation schemes employing error correction coding for asynchronous broadband ISDN

Kitami, T.; Tokizawa, I.;

INFOCOM '90. Ninth Annual Joint Conference of the IEEE Computer and Communication Societies. 'The Multiple Facets of Integration'. Proceedings., IEEE , 3-7 June 1990

Pages:116 - 123 vol.1

[Abstract] [PDF Full-Text (604 KB)] IEEE CNF

8 A high-speed HF parallel-tone modem

Cook, S.C.; Gill, M.C.; Giles, T.C.;

HF Radio Systems and Techniques, 1994., Sixth International Conference on , Jul 1994

Pages:175 - 181

[Abstract] [PDF Full-Text (424 KB)] IEEE CNF

9 Coded M-DPSK with built-in time diversity for fading channels

Lee-Fang Wei;

Information Theory, IEEE Transactions on , Volume: 39 , Issue: 6 , Nov. 1993

Pages:1820 - 1839

[Abstract] [PDF Full-Text (1524 KB)] IEEE JNL

10 Iterative co-channel interference cancellation in narrowband mobile radio systems

Arslan, H.; Molnar, K.;

Emerging Technologies Symposium: Broadband, Wireless Internet Access, 2000. IEEE , 10-11 April 2000

Pages:5 pp.

[Abstract] [PDF Full-Text (412 KB)] IEEE CNF

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11 The effective interleaving scheme against the shadowing in S-band digital mobile satellite broadcasting system

Abe, M.; Yamamoto, T.; Mitsugi, J.; Serizawa, M.; Sato, N.;

Vehicular Technology Conference Proceedings, 2000. VTC 2000-Spring Tokyo.

IEEE 51st , Volume: 3 , 15-18 May 2000

Pages:1793 - 1797 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) [IEEE CNF](#)

12 Optimization of code rate and spreading factor for direct-sequence CDMA systems

Bickel, M.; Granzow, W.; Schramm, P.;

Spread Spectrum Techniques and Applications Proceedings, 1996., IEEE 4th

International Symposium on , Volume: 2 , 22-25 Sept. 1996

Pages:585 - 589 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) [IEEE CNF](#)

13 Comparison of QAM-VDSL and DMT-VDSL in an impulse noise environment

Ouzzif, M.; Toumpakaris, D.; Cioffi, J.; Zeddani, A.;

Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE , Volume

4 , 1-5 Dec. 2003

Pages:2141 - 2145 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(256 KB\)\]](#) [IEEE CNF](#)

14 A novel scheme combining interleaving technique with cipher in Rayleigh fading channels

Yuan Dong Feng; Zhang Li Jun;

Communication Technology Proceedings, 1998. ICCT '98. 1998 International

Conference on , Volume: vol.2 , 22-24 Oct. 1998

Pages:4 pp. vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) [IEEE CNF](#)

15 Interleaved forward error correction for variable bit rate video cod

Harasaki, H.; Yano, M.;

Communications, 1994. ICC 94, SUPERCOMM/ICC '94, Conference Record, Se

Humanity Through Communications. IEEE International Conference on , 1-5 M 1994

Pages:225 - 229 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) [IEEE CNF](#)

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